

## SEPITK1 or SEPITK2 Primary Injection Test Kits (For Use With SE Drawout Circuit Breakers)

Retain for future use.

### PARTS LIST

Pre-wired Adaptor Plug  
Blue Neutral Current Transformer (CT) Test Leads

### GENERAL

Primary injection testing involves utilizing a high-current, low-voltage source to pass current through each pole of the circuit breaker.

Before conducting any testing, refer to the National Electrical Manufacturers Association Guidelines for Inspection and Preventative Maintenance of Molded Case Circuit Breakers Used in Commercial and Industrial Applications (NEMA Standards Publication AB-4). For test verification, refer to the appropriate trip curves for the circuit breaker being tested. This testing must be performed and evaluated by qualified personnel.

### PROCEDURE

#### **⚠ DANGER**

##### **HAZARD OF ELECTRIC SHOCK, BURN, OR EXPLOSION**

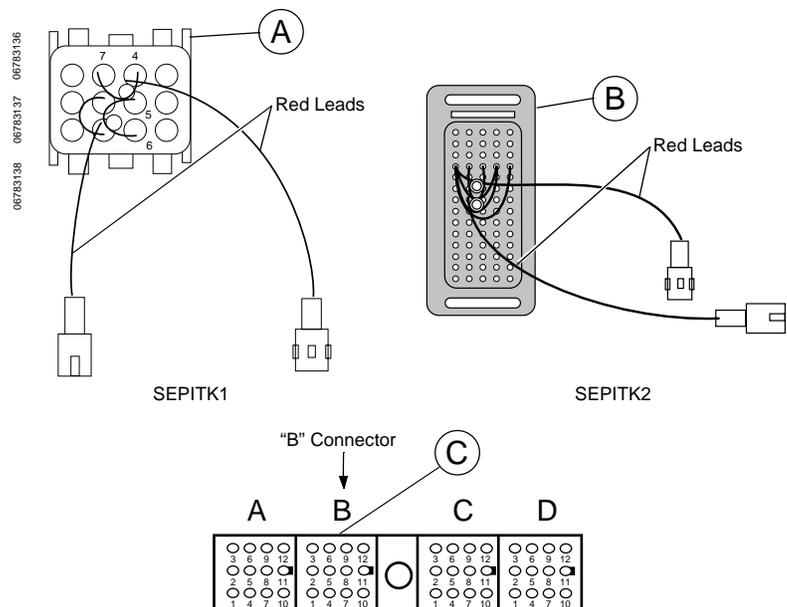
- This equipment must be installed and serviced only by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.

**Failure to follow these instructions will result in death or serious injury.**

1. Turn off all power supplying this equipment before working on or inside equipment.
2. Remove circuit breaker from cell. Disconnect control plug.

*NOTE: Use SEPITK1 pre-wired adaptor plug for series 1 circuit breakers, or use SEPITK2 pre-wired adaptor plug for series 2 and higher circuit breakers.*

3. Insert pre-wired adaptor plug (A or B) into circuit breaker control plug receptacle. For series 1 circuit breakers, SEPITK1 adaptor (A) must be inserted into the "B" location on connector (C).

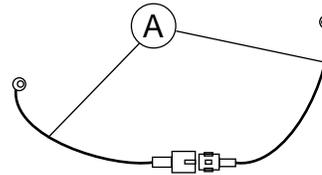


**Table 1: Test Plug Connections**

Test	Connections
Phase overcurrent 3Ø, 3- or 4-wire	Plug red leads together.
Ground-fault 3Ø, 3-wire	Disconnect red leads.
Ground-fault 3Ø, 4-wire with a Neutral CT	Connect read leads to blue leads and connect ring terminals to neutral CT.

4. Make test plug connections (Table 1) for test to be performed.  
*NOTE: Polarity is important when connecting ring terminals to neutral CT. Improper connections will result in low trip values. If this occurs, disconnect power and reverse neutral CT connections.*
5. Perform testing as shown in Table 1.
6. After testing is completed, disconnect test power.
7. If required, remove neutral current transformer test leads (A) and reconnect neutral CT wiring.

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8. Remove adaptor plug.